Application No.: 09/826729 Docket No.: 47253-00003USPX

## **AMENDMENTS TO THE CLAIMS**

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for calculating the autocorrelation of the binary signal, and

for using distance between peaks in the autocorrelation of the binary signal as an estimate of the pitch.

- 7. (CURRENTLY AMENDED) A <u>The</u> device according to claim 6, which includes a filter which is adapted to provide the intermediate signal by filtering the speech signal through the filter based on a set of filter parameters estimated by means of linear predictive analysis (LFA).
- 8. (CURRENTLY AMENDED) A <u>The</u> device according to claim 6, including a filter which is adapted to provide the intermediate signal by calculating an autocorrelation of a signal derived from the speech signal by filtering the speech signal through the filter based on a set of filter parameters estimated by means of linear predictive analysis (LPA).
- 9. (CURRENTLY AMENDED) A <u>The</u> device according to claim 6, which is further adapted to select, if a peak corresponding to the distance between the peaks is represented by a number of samples, the sample having the maximum amplitude of said <del>conformity</del> autocorrelation function as the estimate of the pitch.
- 10. (CURRENTLY AMENDED) A <u>The</u> device according to claim 6, wherein the device is a mobile telephone.
- 11. (CURRENTLY AMENDED) A <u>The</u> device according to claim 6, wherein the device is an integrated circuit.
- 12. (NEW) The method of claim 1, wherein:

the provided intermediate signal is derived from the autocorrelation function of the speech signal, and

the binary signal is set to logical "1" where a peak value in an autocorrelation sequence of the intermediate signal exceeds a pre-selected threshold and to logical "0" where a peak value of an autocorrelation sequence of the intermediate signal does not exceed the pre-selected threshold.

13. (NEW) The device of claim 6, wherein:

the provided intermediate signal is derived from the autocorrelation function of the speech signal, and

the binary signal is set to logical "1" where a peak value in an autocorrelation sequence of the intermediate signal exceeds a pre-selected threshold and to logical "0" where a peak value of an autocorrelation sequence of the intermediate signal does not exceed the pre-selected threshold.